

Bulletin

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University of Toronto

Monday, August 11, 1980

Employee fitness program may be established at U of T

Lower absenteeism and greater job satisfaction can result, say researchers

by Sarah Henry

The Department of Athletics & Recreation hopes to establish a pilot fitness program for some University faculty and staff this fall.

The exercise program would be offered to employees within a selected department and be held at, or close to, the employees' workplace.

Robin Campbell, the athletic centre's fitness coordinator, says the proposed project would determine the feasibility of starting an on-site fitness and lifestyle program for interested faculty and staff throughout the University.

A preliminary survey has shown there are a number of buildings on campus that have spaces large enough to serve as satellite fitness centres, he says. All that now stands in the way is finding a department keen on pioneering the idea on campus.

Setting up a University-wide program would depend on funding, he adds. It might be possible to raise the required amount through Wintario and private funding, perhaps a cost-sharing arrangement whereby Wintario would pay half, the University one-quarter, and participating employees the remainder. The department is also considering a modified program offering fitness assessments and counselling to staff members, followed up by "incentive" projects within different departments, in which staff would receive a token reward for participation in a predetermined physical activity. The idea of such programs is to spur employees on to greater fitness achievements in their leisure time, says Campbell.

Since the athletic centre opened last year, the number of joint memberships (entitling staff to use a number of University services) has increased,



A study of the Canada Life Assurance fitness program by U of T researchers suggests that savings to be gained from such a program more than cover operating costs.

suggesting to him that many employees are already taking advantage of the U of T's athletic programs.

One of the major benefits of employee fitness programs close to or right in the place of work, however, is that they encourage people who work together to play together: "The best way of setting up employee programs like this is to organize them for people working in the same building at the same type of job," says Campbell. "But we can't treat the University of Toronto as one company. It's more like 50 different companies."

Fitness experts have long suspected that employee exercise programs, in addition to improving physical well-being, yielded other benefits, including

reduced absenteeism and staff turnover, that would make them attractive, cost-effective ventures from the standpoint of employers.

University researchers Roy Shephard, Michael Cox, and Paul Corey, in what is believed to be the first study of its kind, have gathered evidence to suggest the by-products of such company exercise programs may be even more impressive than imagined. The study was conducted through the Department of Preventive Medicine & Biostatistics. Shephard has since become director of the School of Physical & Health Education; Cox is now

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Deadlines

The deadline for submissions for the Sept. 8 *Bulletin* is August 29, except for display advertising, which is August 25.

Fellows of Massey College

The master and fellows of Massey College have re-elected Professor J.M.S. Careless, Professor Emeritus D.V. LePan and the bursar, Colin E. Friesen, to further five-year terms as fellows of the college.

Professor Douglas G. Lochhead, the first librarian of the college and now the Davidson Professor of Canadian Studies at Mount Allison University, was re-elected to an associate fellowship for a further five years.



Bulletin wins newspaper award

Those of us who bring you the *Bulletin* are pleased to announce that our newspaper has been awarded an honourable mention in the internal newspaper category of the Canadian Public Relations Society's 1980 Awards of Excellence. (Winner in this category was Dominion Foundries & Steel Ltd., Hamilton.)

Lifestyle award presented to Prof. Juri Daniel

Professor Juri Daniel of the School of Physical & Health Education has been presented with the Lifestyle Award "in recognition of outstanding service in fostering improved health lifestyle" by Health & Welfare Canada.

Professor Daniel was nominated for this award by the Canadian Red Cross Society for his outstanding voluntary leadership of Canadian water safety programs, including small craft safety and adapted aquatics.

Prof. Daniel, in cooperation with the National Leadership Training Centre of the YMCA, also initiated the first residential lifestyle changes' clinic for selected professions in Canada. These clinics have been in operation for the last 10 years.

Prof. Daniel is continuing his service with the Canadian Red Cross Society as chairman of safety services (first aid, small craft safety, and water safety).

Strangway report on teaching, research

calls for external reviews of departments, appointments and PhD committees

Procedures designed to assess and improve the quality of teaching and research in the School of Graduate Studies (SGS) have been set out in a report to be discussed Sept. 16 by the SGS Council. The procedures cover external reviews of departments, new appointments to the graduate school, and observers on PhD committees.

Author of the report was geology department chairman David Strangway (now vice-president and provost) who headed a committee comprising Professors J.B. French, J.M. Rist, A.E. Safarian, Louis Siminovitch, and B.P. Stoicheff.

Their report recommends that each sector of the University undergo an external review at least every five years by at least three outside reviewers, selected by the SGS dean with advice from the unit concerned, and representing leading authorities in the discipline.

The reviewers would be provided in advance of their visit with: curriculum vitae of academic staff; summaries of research activities; comments from SGS associate deans on promotion and tenure decisions; and overall statistics for the past few years on budget, enrolments, research grants, and PhD theses.

The external review committee would be expected to prepare a single (but not necessarily unanimous) report suitable for distribution to the faculty concerned, but could also submit a separate confidential section. Among the matters on which they would be asked to comment would be the quality of recent theses, the level and quality of research activity, the quality of tenure and promotion decisions, the adequacy of resources for research, and evidence of "continuing scholarship" of faculty members. The dean and the chairman would be informed specifically

of faculty members whose SGS appointments should be reviewed.

The Strangway committee report also recommends that, by 1981, new appointments for SGS be for terms of five years, after which the department would be required to resubmit documentation demonstrating a substantial involvement in research or in a creative professional activity at an appropriate level.

Finally, the report recommends that the dean appoint a group of senior scholars to serve simultaneously as chairmen of PhD oral committees and as decanal observers of the examination.

Their response to basic questions about the conduct of PhD orals would form "a longitudinal data base" to help identify areas of continuing weakness, says SGS vice-dean David Nowlan.

"We're trying to get away from the level of anecdote."

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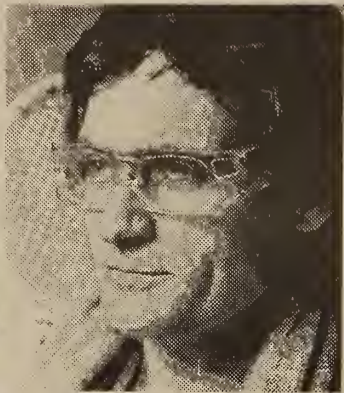
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Employee fitness

Continued from Page 1



the senior exercise physiologist for the Department of Athletics & Recreation.

The study involved a before-and-after analysis of an employee fitness program at Canada Life Assurance Company. The researchers found that people who took part in the half-hour sessions two or more times each week had absentee rates 22 percent lower than other employees, were 10 times less likely to leave the company, and expressed greater satisfaction with their jobs than they had at the beginning of the experiment.

The exercise program was designed and conducted by Health & Welfare Canada's fitness and amateur sports branch. Between September and December 1977, the U of T researchers conducted preliminary physiological assessments and made attitudinal and lifestyle profiles of 1,125 employees, including about 400 from North American Life Assurance Company, which acted as the control group.

The Canada Life group included employees who took the assessment tests but didn't participate in the program, drop-outs, people who attended only occasionally, and those who attended two or more classes each week.

At the end of six months, the researchers returned to the insurance company to repeat their tests. They found that participants in the program had a turnover rate of 1.5 percent, compared with 15 percent over the same period in other company employees. And although the tests were conducted at a time when Canada Life's over-all absenteeism rate fell 20 percent, the employees in the program, including both occasional and regular participants, registered a 42 percent drop in absenteeism. About the only area where gains were not found was in productivity; overall company productivity increased three percent over the period, but was not higher among exercisers than non-exercisers.

The U of T study suggests that the savings to be gained through company fitness programs would return several-fold the \$50,000 annual operating cost of such a program. The researchers point out that hiring and training a new employee costs, on average, \$6,250. That 10-fold decrease in turnover represented a savings of roughly \$500,000 to the company over the course of a year. And a 22 percent decrease in absenteeism amounted to 1.3 days per employee a year at about \$50 a day. If all 1,350 Canada Life employees could be brought into such a program, it would realize an annual saving of some \$88,200.

The fitness program may have caused these benefits because of the employees' improved health, says Cox. More likely, however, is that "the camaraderie of such

a program probably breaks up the monotony of an everyday job and gives people something to look forward to at work.

"Along with the drop in absenteeism, the employees' cardiovascular efficiency did improve. But statistically, we didn't see the nice go-together one would like to see. We speculate that it was just that the program made people feel better subjectively."

Cox says it would be wrong to think, as many fitness researchers have supposed, that people who enrol in such programs are fitter and better motivated to begin with, and could therefore be expected to register lower absentee rates and have more stable employment histories. The Canada Life group, at the beginning of the experiment, were no different from other employees in physical, psychological or lifestyle assessments. In fact, the men who became regular participants initially had lower fitness levels than the average male employee.

"I think this gives some power and credibility to this type of study. We can now argue that it is quite conceivable to get ordinary people out and show an improvement in their fitness."

But it is vital that such programs be designed to be enjoyable, says Cox: "This isn't the traditional blood, sweat and tears program that requires grinding it out on a bicycle. It's a very social program, designed with music and other techniques to get people to work without their really being aware of it. That's where the genius comes in."

And it appears to have worked. While most exercise programs experience drop-out rates of between one-third and three-quarters, the Canada Life rate was a modest 17 percent.

After two-and-a-half years, the program is still going strong. Today, says Cox, "There's still a high adherence rate. And now it's one of the selling points of the company for employees."

Rimrott awarded von Humboldt Medal

Professor Fred Rimrott, Department of Mechanical Engineering, received the Alexander von Humboldt Medal for contributions to international scientific cooperation, during the 1980 Canadian regional meeting of the Alexander von Humboldt Foundation, on June 29, 1980 in Ottawa.

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Mathematical genius uncovered behind 15th century Italian masterpiece

by Sarah Henry

In a tiny chapel on the outskirts of Monterchi, Italy, there is a fresco of the Virgin Mary with attendant angels. The Madonna is pregnant, unconventional subject matter in itself.

But it is only now that the greater significance of Piero della Francesca's 15th century masterpiece is being fully recognized. Professor Thomas Martone has provided proof that Piero's perfect fusing of mathematical principles and artistic sensibility ensures a place for the Madonna del Parto as probably the first of the Renaissance "organic" compositions in which all elements form an interdependent unit so that nothing can be added or removed.

Since he became interested in the Madonna 11 years ago, the Erindale College fine arts professor has travelled three times to Monterchi, about 50 miles south-east of Florence. The first time he unearthed forgotten records from the local archives. The second time he made painstaking measurements of the small chapel.

On his third trip, earlier this year, the Italian government gave him an honorary citizenship for his contribution to the country's heritage. He was also keynote speaker at the International Congress on Art at Monterchi, where he presented his findings to a group of European and US Renaissance experts. His research was also well-received by North American authorities at the College Art Association meeting in New Orleans this year.

Martone's investigation establishes the Madonna del Parto as a landmark in art history. Until now, Leonardo da Vinci, on the basis of paintings produced some 20 years after Piero's Madonna, has been considered the first Renaissance painter to fully exploit scientific principles in his work.

The 15th century was a time when artists began to move away from preconceived notions and pattern books, and began taking an empirical approach to art, working from real life models. Mathematics became increasingly important in religious art. Leon Batista Alberti, whose artistic precepts established the concept of organic composition, wrote that the suitable environment for manifesting divinity was the harmony of geometry. Piero, author of two mathematics texts, was one of the pioneers of this movement as he fully broke away from the guesswork of approximating size and spatial relations by using pure geometry to create the illusion of space. The Madonna was Piero's vehicle to put his geometric lessons into practice, says Martone.

Yet the full scope of Piero's accomplishment cannot be appreciated. Three hundred years after the fresco was painted, the church in which it was housed was weakened by seismic tremors. The main church was dismantled, its chapel, containing the painting, left standing. But only the central portion of the painting remained visible. The rest was hidden under thick bolstering walls. A sacred relic that had been on display within the chapel was transferred to another church, and ultimately fell into private hands. In 1956, the chapel was once again renovated. What remained of the fresco—the Virgin and two angels—was moved from its east-west orientation to a north-south position. Large circular windows were installed, further destroying the light relationship that Piero had intended.

"Today, that painting looks like a hundred other madonnas," says Martone. "The problem is that it has been taken out of its original context." But the University professor, following elaborate calculations, believes he has unravelled Piero's original intent.

The artist's first step, says Martone, was to create the appearance of a recessed wall behind the brocade tent, in order to provide a three-dimensional effect of the



Piero della Francesca's *Madonna del Parto* is a 'perfect fusion of mathematical principles and artistic sensibility'.

Madonna's enclosure. On a diagonal plane, the curtain is being pulled forward by the angels, while the Virgin, on still another plane, appears to be moving slowly forward, her protruding stomach the outermost element in the fresco. On one side of the artificial wall was a painting of St. Lucy, on the other a pieta.

On the wall adjacent to the altar was the relic; its presence, and the fact that the town was Piero's mother's birthplace, probably explain why he chose this relatively humble chapel for his work. Piero, recognizing that his fresco could easily steal the show, positioned the Madonna turning to the left to direct the visitor's attention to the holy object—and the fact of the Virgin's obvious pregnancy.

"Imagine yourself coming in out of the bright Mediterranean sun into this dark church. Until your eyes adjust, the effect would have been like a vision, as though the Madonna were stepping out of the wall.

"It's absolutely astounding. While other artists were creating a sense of depth and treating a wall like a window, he was creating the illusion of figures entering into the environment of the observer in a most sensational way. It's as though those curtains were suddenly opened and the Madonna emerges in this slow, stately movement."

Martone had long suspected there was more to the painting than met the eye. In 1969, while at New York University, he had written a paper examining the liturgical significance of Renaissance depictions of tabernacles, using Piero's Madonna del Parto as a starting point. Art historians had already commented on the dual significance of Piero's tabernacle—a tent sanctuary where the consecrated elements of the Eucharist are kept—housing another tabernacle, this one the living Madonna providing cover for the unborn Christ. Martone had also noticed that when the sacramental bread was held

aloft over the altar in Piero's day, it would have coincided precisely with the Madonna's stomach, suggesting another dual religious interpretation.

Martone was also interested in the two dark fragments on either side of the draperies, which strongly suggested to him that the Madonna now on display was only part of Piero's fresco. In 1972, during his first trip, he found early documents describing the original fresco that, in addition to the Madonna and angels, depicted St. Lucy on one side and the Virgin mourning over the dead Christ on the other. In a trip six years later, careful measurement of the chapel confirmed that the measurements of the total fresco were 6.5 by 5 metres, though only the 2.5 by 2 metre central panel is still visible.

In the months that followed, Martone, with help from Erindale mathematics professor William Weiss, sorted out Piero's 520-year-old geometry puzzle that gave his work its amazing dimensional quality.

Piero, says Martone, based his painting on three basic mathematical constructions—the pentagon, the dodecahedron (a solid with 12 sides), and a body with 72 sides—all superimposed upon the structure to give the painting the required space illusions. A central circle can be drawn to intersect the points where the curtains part, at the angels' lower hands, and at the hem of their gowns. The centre of that circle is the Madonna's thumb covering her stomach.

Piero then bisected the sphere into two sections, the foreground using the dodecahedron, the background the 72-sided figure. He probably constructed this background of the tent by suspending string from a nail in the roofbeam for use as a "ruler" to draw the longitudinal lines. The same nail could then serve as a compass point for drawing the transverse lines.

The curvature of the background further emphasizes the spherical nature of the

tent as unseen triangles broaden into trapezoids, then rectangles, and converge again until they end in the circular floor on which the Madonna stands. The equator—where the horizontal curve became a straight line—is at the base of the blousing below the angels' waists. Piero apparently meant this straight line to coincide with the observer's eye-level. And the cylindrical rectangles further emphasize his insistence on accurate proportions; the Madonna's oval head, for instance, is the length of one of the rectangles.

Geometry is everywhere. A diagonal line can be drawn from the tip of each angel's outstretched foot to the top of the extended hand, then another line can be drawn from hand to hand and down to floor-level, then joined at the base to the first line, to form a right-angled triangle. A line extending from the angel's lowered hand to the tip of the wing will bisect the hypotenuse of the triangle in the ratio of the Golden Section, an ancient formula in which the ratio of the smaller to the larger section is equal to the ratio of the larger section to the whole.

It is these geometric elements that give the painting its organic quality, says Martone: "The space is coherent and complete. It's a perfect form, to which nothing can be added or subtracted. You can't add anything to the surface of a ball without it losing its shape."

"When you first look at the painting, the Madonna seems to just be in the centre. But when you analyze it, you realize that the figures define the spherical surface. It's just the opposite of other paintings of the period in which the artist created a cubic space, then populated it with figures."

To Martone, the wonder of Piero's Madonna is that the mathematics aren't strikingly obvious. "A painter has to disguise the geometry, otherwise the painting dies. It will look very static."

The disguise, he says, involves the clever counterplay of light, colour and movement. The bottom of the Madonna's dress, for example, uses the *sfumato*—literally "smokey light"—technique, while the upper half of her body has a sharper focus: "The Madonna looks simultaneously attached to the background and yet removed from it."

Piero's mathematical refinement can be viewed as an early step in bringing greater status to the artist: "Until the 15th century, they were considered artisans because Plato had excluded painting, sculpture and architecture from the liberal arts, because they were manual."

"But mathematics was one of the liberal arts. As soon as it became associated with painting, artists tried to establish their work as one of the liberal arts and a profession that required more intellectual than physical labour."

But for the Madonna del Parto, the manual labour is about to begin. Italian authorities, in the light of Martone's research, are anxious to restore the tiny chapel to Piero's original specifications. The Madonna will once again take her place above the altar. But Martone says it's highly uncertain whether the artificial wall with its recessed effect and paintings of St. Lucy and the pieta can be successfully restored from behind their yard-thick wall of stone. Martone says he knows where the original sacred relic is, and hopes the present owner can be encouraged to return it to the chapel.

Despite the uncertainties involved, Martone sees the effort as worthwhile because of the painting's contribution to the history of art: "The wonderful part of this painting is that we have an opportunity to get into the mind of Piero through his mathematics. If he had never picked up a paintbrush he still would have been famous as a mathematician."

Notice of the new enactment for disciplinary affairs

The enactment of the Governing Council respecting the Disciplinary Tribunal of the University of Toronto was revised and approved by the Governing Council on April 17, 1980 and has taken effect on July 1, 1980. For the Faculty of Arts & Science the most important amendment concerns academic offences by students. Attention is drawn to Section 16, paragraphs one through 10 and especially to paragraph five in which total denial of credit for the work in a course is now the maximum penalty which can be imposed without formal prosecution in the University of Toronto Tribunal. (This replaced denial of credit for the *piece of work* concerned.)

Any questions about the new procedures should be directed to Dean J.R. Webster (978-4440) but these are outlined in the new Faculty of Arts & Science academic handbook issued to all instructors for the 1980-81 session.

Appointments

Nicol named head of school of theology

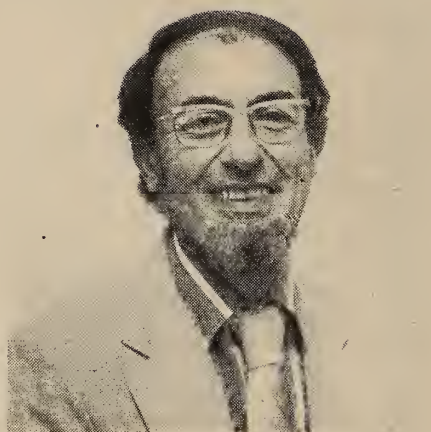
Professor Iain G. Nicol, MA, BD, PhD, has been appointed director of the Toronto School of Theology. He succeeds Professor C. Douglas Jay. His appointment became effective July 1 and is for an initial period of five years.

After postgraduate study at the University of Marburg, Prof. Nicol was ordained in the Church of Scotland in

1964. In 1965 he was appointed lecturer in systematic theology at the University of Glasgow. Coming to Toronto in 1975, he took up his present appointment as professor of systematic theology in Knox College.

His publications include articles on faith and historical criticism as well as translations of theological works from German.

In addition to his work at Knox College and now at the Toronto School of Theology, Nicol has been chairman of the Committee on Church Doctrine of the Presbyterian Church in Canada, a member of its Committee on Ecumenical relations, and representative of the Presbyterian Church on the Canadian Council of Churches Faith and Order Division.



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PhD Orals

Since it is sometimes necessary to change the date or time of an oral examination, please confirm the information given in these listings with the PhD oral office, telephone 978-5258.

Monday, August 11

Tania Hreczko, Department of Anatomy, "Familial Dermatoglyphic Inheritance." Prof. A. Ray. Room 111, 63 St. George St., 10 a.m.

Marinus Antonius Boekelman, Department of Political Economy, "The Development of the Social and Political Thought of Anton Pannekoek: From Social Democracy to Council Communism." Prof. C. Bay. Room 309, 63 St. George St., 2 p.m.

Tuesday, August 12

Patrick W. Dymond, Department of Computer Science, "Simultaneous Resource Bounds and Parallel Computation." Prof. A. Borodin. Room 307, 63 St. George St., 3 p.m.

Wednesday, August 13

Robert Lawrence Varty, Department of Mechanical Engineering, "An Experimental Study of a Laminar Separation Point." Prof. I.G. Currie. Room 309, 63 St. George St., 10 a.m.

Theodore R. Malloch, Department of Political Economy, "A Critical Treatment of Some Conceptualizations of Ideology in Behavioral Political Science." Prof. C. Bay. Room 309, 63 St. George St., 2 p.m.

Thursday, August 14

Ronald Price Replegle, Department of Political Economy, "The Theory of Rational Agency in Hobbes, Kant, and Marx." Prof. E. Andrew. Room 111, 63 St. George St., 2 p.m.

Friday, August 15

William Bawden, Department of Civil Engineering, "Two-Phase Flow through Rock Fractures." Prof. J.C. Roegiers. Room 309, 63 St. George St., 10 a.m.

John McLennan, Department of Civil Engineering, "Hydraulic Fracturing: A Fracture Mechanics Approach." Prof. J.C. Roegiers. Room 309, 63 St. George St., 2 p.m.

Monday, August 18

Swee Chua Goh, Faculty of Management Studies, "The Effects of Social Influence on Resource Allocation Decisions in Organizations: Some Theoretical Extensions and an Empirical Test." Prof. M.G. Evans. Room 111, 63 St. George St., 2 p.m.

Wednesday, August 20

Derek John van der Kooy, Department of Anatomy, "The Organization of the Output of the Basal Ganglion in Rat." Prof. T. Hattori. Room 309, 63 St. George St., 2 p.m.

Friday, August 22

Mick Ying-Pui Chan, Department of Clinical Biochemistry, "Analysis and Pharmacokinetics of Methylphenidate (Ritalin): Studies in Hyperactive Children." Prof. S.J. Soldin. Room 307, 63 St. George St., 10 a.m.

David Arthur Holden, Department of Chemistry, "Studies of Excimer Kinetics and Electronic Energy Transfer in Naphthalene-Containing Polymers." Prof. J.E. Guillet. Room 309, 63 St. George St., 10 a.m.

Lynda Mary-Anne Lange, Department of Philosophy, "Women and Democratic Theory: A Study of Jean-Jacques Rousseau." Prof. D.P. Gauthier. Room 309, 63 St. George St., 2 p.m.

Thursday, August 28

W. David Elliott, Department of Computer Science, "The Complexity of Graph Isomorphism and Related Problems." Prof. D. Wortman. Room 309, 63 St. George St., 10 a.m.

Wednesday, September 3

Photios J. Dais, Department of Chemistry, "Rotational Dynamics in Solutions of Molecules Containing Hydrocarbon Chains and/or Phenyl Groups." Prof. W.F. Reynolds. Room 307, 63 St. George St., 10 a.m.

Friday, September 5

M.A.B. Visser, Department of Classical Studies, "The Erinyes. Their Character and Function in Classical Greek Literature and Thought." Prof. D.J. Conacher. Room 307, 63 St. George St., 9.30 a.m.

Monday, September 8

Robert William Van Develde, Department of Philosophy, "Memory and Knowledge: An Epistemic Analysis of the Concept of Remembering." Prof. R.F. McRae. Room 309, 63 St. George St., 11 a.m.

Friday, September 12

James W. Gordon, Department of Chemistry, "Mechanism of the Olefin Iodochlorination Reaction." Prof. G.H. Schmid. Room 309, 63 St. George St., 9 a.m.

Monday, September 15

D.L.M. Lepicq, Department of Educational Theory, "Aspects théoriques et empiriques de l'acceptabilité linguistique: le cas du français des élèves des classes d'immersion." Prof. M. Swain. Room 111, 63 St. George St., 9 a.m.

Research News

Health & Welfare Canada — Correction

In the July 14 *Bulletin*, it was incorrectly noted that the Health Promotion Directorate, located in Toronto, had established one deadline date for all of its applications. The single deadline has been established by the Extramural Research Programs Directorate of the Health Services and Promotion Branch, located in Ottawa.

The single deadline date of July 31 has been established for both new and renewal applications to the national health research and development program. For new grants the start date of

an award will be on or after April 1. For renewal grants the start date will be January 1 or April 1. ORA apologizes for any inconvenience this incorrect designation may have caused.

Upcoming Deadline Dates

Secretary of State ethnic research program: August 15

SSHRC international collaborative research grants: September 1

SSHRC aging program reorientation grants: September 1

Connaught Fund special research program grants: September 12

MRC now has only one deadline per year for its grants-in-aid: November 1

Books

The Royal Tour of France

The Royal Tour of France by Charles IX and Catherine de' Medici. Festivals and Entries 1564-6.

Victor E. Graham and
W. McAllister Johnson
University of Toronto Press

Pomp and circumstance have always accompanied the activities of the European court in connection with tours, weddings, state visits, coronations and other important occasions. In particular, the formal entry of the King into the major cities of his realm became more and more the occasion for elaborate processions and festivals from Medieval times onward, but it remained for the Renaissance courts of Italy, France and England to develop the traditional pageantry into a magnificent art form. The typically Renaissance ideal of the union of all the arts found its fullest expression in the fusion of music, drama, dance, poetry, painting, sculpture and architecture into carefully orchestrated spectacles designed to amaze and delight, but calculated as well to express and nurture important ideals of politics and social morality. Professors Graham (Department of French) and McAllister Johnson (Department of Fine Art) have fused their talents and efforts in the best Renaissance tradition, to display the splendours of some of these grandiose entertainments.

Having cooperated fruitfully in 1968 in an article dealing with the relations between the poet Ronsard and the architect and sculptor who decorated the inner facade of the *Cour carrée* of the Louvre, the authors embarked on an ambitious project to make available in documented form some of the most important of the French processions and festivals of the 16th century.

Their first volume in 1972 (*Estienne Jodel, 'Le Recueil des inscriptions 1558': A Literary and Iconographical Exegesis*) dealt with the festive reception provided by the city of Paris for the King and the victorious General Duc de Guise on the occasion of the recapture of Calais from the English in 1558. The second volume in 1974 (*The Paris Entries of Charles IX and Elisabeth of Austria 1571, With an Analysis of Simon Bouquet's 'Bref et sommaire recueil'*) presented the elaborate entry processions by Charles and Elisabeth which were coordinated by the official poets Ronsard and Dorat. This third volume describes the major festive events of the royal tour of France undertaken over a period of two years by Catherine de' Medici and her 13-year-old son, King Charles IX, from 1564 to 1566.



Gold medal of heroic virtue given at the festival at Bayonne on the 25th June, 1565, from King Charles IX to his sister Elisabeth, Queen of Spain. Illustration taken from *Recueil des choses notables*, Paris 1566.



Woodcut *Description du pays d'Auvergne* from François de Belleforest, *Cosmographie universelle*, Paris 1575. Visited by the court on the 1st to 3rd of April, 1566, the area was under the control of the Queen Mother, Catherine de' Medici.

The tour was intended by the ever-vigilant Queen Mother to consolidate the monarchy and to help re-unite the discordant elements which divided the French nation. Above all, the tour was to culminate in a conspicuous meeting with King Phillip II of Spain at Bayonne, to initiate important diplomatic negotiations. Whatever the political success may have been, the focus of the book is turned toward the external trappings of the festivities and processions, which, far from being mere distractions, were designed to play an important part in the didactic purposes of the tour.

As in the two previous volumes, the intention has been to present the most important of the original documents relating to the festivities, rather than telling us about them at length, as others have done already. The documentation is centred around a detailed itinerary of the tour written by Abel Chouan, known only as the '*Sommier en nostre cuisine de bouche*' at the royal court. This central text is accompanied by numerous other contemporary documents in 22 appendices, covering some 240 pages, and giving varied descriptions and perspectives on the festivities as seen by other witnesses, all of this followed by a rich selection of drawings, paintings, engravings, woodcuts, lithographs, medals, manuscripts and title pages, which help to re-create some of the effectiveness of the original multi-media performances. We are allowed to participate in astonishing displays of fireworks, a battle with a fake

whale in the River Adour, folk dancing, equestrian ballet... What have we to compare with this? A gigantic collage of the CNE midway, the climax of *Jaws*, the Mariposa Festival and the RCMP Musical Ride would still not capture the variety. In more "courtly" displays, we accompany the King himself as he sets out to rescue damsels in distress in an elaborate festival at Fontainebleau, or as he leads into battle the forces of Virtue in a magnificent allegorical tournament at Bayonne. Through all of the spectacle, however, one is constantly aware, in the recurring themes of poems, plays, figures and medals, of a conscious glorification of the ideals of loyalty, integrity, dedication to the national welfare, and extravagant praise of the young King, who is called upon to restore France to its position of supremacy in Europe.

Professors Graham and McAllister Johnson are to be congratulated for making available in such elegant form the authentic materials which allow us to reconstruct at least a few magical moments from a splendid period in French cultural history.

Professor Robert Taylor
Department of French

In Memoriam

Professor John Lovett Doust, Department of Psychiatry, June 25.

Dr. Lovett Doust was born in England and educated at the University of London. He did his postgraduate training in psychiatry and psychosomatic medicine at the Maudsley Hospital, London, and was appointed as a senior lecturer at the University of London's Institute of Psychiatry in 1950.


He came to Canada in 1952 and assumed a series of research responsibilities at the Toronto Psychiatric Hospital and the Queen Street Mental Health Centre. In 1966 he joined the staff of the Clarke Institute of Psychiatry as head of the Clinical Physiology Unit and head of the research section of psychophysiology. Dr. Lovett Doust was named Professor Emeritus in the Department of Psychiatry, which would have taken effect on July 1, 1980, the day after he was scheduled to retire.

History professor wins book award

Professor John N. Ingham has won the Canadian Historical Association's Wallace K. Ferguson prize, with \$2,000, for "the best book of history in a field of history other than Canadian". Prof. Ingham's work, *The Iron Barons* (Greenwood Press), is a study of the social backgrounds of the leaders of the great American iron and steel corporations at the turn of the last century.

Forest fire paper receives award

Professors David Martell of the Faculty of Forestry and James Bookbinder of the Faculty of Management Studies and the Toronto Transit Commission, were awarded the Canadian Operational Research Society (CORS) Gold Medal Plaque at the society's annual meeting in Quebec City recently. The award was for their paper entitled "Time-dependent queuing approach to helicopter allocation for forest fire initial-attack" which appeared in the 1979 volume of the journal INFOR. The award was for the best paper by a member of CORS in the 1979 journal year of INFOR.



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Events

Colloquium

Friday, August 22
Some Applications of Fluorescence Techniques in Polymer Science.
 Prof. H. Morawetz, Polytechnic Institute of New York, Brooklyn. 428 Lash Miller Chemical Laboratories. 3.30 p.m.

Governing Council & Committees

Thursday, September 4
Academic Affairs Committee.
 Council Chamber, Simcoe Hall. 4 p.m.

Conference

Sunday, August 17
ICTAM Toronto.
 XVth International Congress of Theoretical & Applied Mechanics will be held Aug. 17 to 23 on the St. George campus. Organized by the National Research Council, Canadian Society for Mechanical Engineering and U of T and held under the auspices of the International Union of Theoretical & Applied Mechanics.
 Registration fee, which includes lunch and refreshments on each day of the congress, \$125.
 Information: Prof. F.P.J. Rimrott, Department of Mechanical Engineering, 978-3053.

Concerts

Wednesday, August 13
CNE 1980.
 Series of recitals arranged by the Royal Conservatory of Music at Canadian National Exhibition; all performers are students of the Conservatory.
 All concerts will be in the west auditorium, Music Building, CNE grounds beginning at 6 p.m. and lasting about half an hour.
 Information, 978-3771.

Wednesday, August 13
Murray Pickering, Piano.

Thursday, August 14
Melana Karpinsky, Piano.

Friday, August 15
Robert Hamilton and Richard Bradley, Classical Guitars.

Saturday, August 16
Gordon Steinberg, Piano.

Monday, August 18
Richard Hornsby, Clarinet.

Tuesday, August 19
Christopher Rose, French Horn.

Wednesday, August 20
Laetitia Yu, Piano.

Thursday, August 21
Wendy Limbertie, French Horn.

Friday, August 22
Winona Zelenka, Violoncello.

Saturday, August 23
Robert Owen, Tenor.

Monday, August 25
Patricia Plumley, Piano.

Tuesday, August 26
Cynthia Steljes, Oboe.

Wednesday, August 27
Stephen Sitarski, Violin.

Thursday, August 28
Susan Palmer, Soprano.

Seminar

Tuesday, August 26
Control of Expression of H-Y Antigen.
 Steve Wolpe, School of Dental Medicine, University of Pennsylvania. 417 Best Institute. 12.30 p.m.

Miscellany

Friday, September 5
Football.
 Blues vs. McGill. Varsity Stadium. 7 p.m.
 Tickets: reserved box seat \$6, stands \$4; unreserved adults \$3, students \$2. Information and tickets, 978-4112.

Wednesday, September 10
Erindale Alumni.
 Annual reception for Erindale College Alumni Association, all alumni welcome. Principal's residence. 7.30 p.m.
 Information and RSVP, 828-5217.

Exhibitions

Monday, August 11
Drawings and Other Work.
 Work by students of FAS 238B (Drawing II). Main foyer, Sidney Smith Hall.
 Monday, Aug. 11 from 3 to 8.30 p.m.; Tuesday, Aug. 12 from 12 noon to 8.30 p.m.

Wednesday, September 10
Acrylics by Martin Guderna.
 Show by Erindale resident artist. Art Gallery, Erindale College, to Sept. 26.
 Opening reception Sept. 10 at 8 p.m., RSVP 828-5214.
 Gallery hours: Monday-Friday, 10 a.m. to 9 p.m.; Saturday-Sunday, 2 to 5 p.m.

Friday, August 29
Wendy and Brian Morton, Cello and Violin.

Saturday, August 30
Eun-Hwa (Grace) Hong, Violin.

Sunday, August 31
Michael Karswick, Piano.

Monday, September 1
Cristen Gregory, Soprano.

Sunday, August 17
Carillon Recital.
 Robert Donnell, carillonneur, U of T and Rainbow Tower, Niagara Falls, Ont.; last in series of seven. Soldiers' Tower. 7.30 to 8.30 p.m. (UTAA)

Friday, August 29
National Youth Orchestra.
 Final concert of the 1980 orchestra. MacMillan Theatre, Edward Johnson Building. 7.30 p.m.
 Information and tickets: National Youth Orchestra Association, 76 Charles St. W., telephone 922-9711. (Music and NYO)

Occupational Health and Safety Coordinator

The Vice-President — Campus and Community Affairs is interested in making an interim appointment to the new position of Occupational Health and Safety Coordinator. This appointment preferably will be on a part-time cross-appointed basis for a member of the academic staff knowledgeable in the Health and Safety field, experienced in administration and familiar with University of Toronto operations. During the initial stages, this person will assist the Vice-President to develop the committee structure, educational programs and specialist resource support needed to comply with the requirements of the Occupational Health and Safety Act (Bill 70).

Enquiries or nominations should be directed to Dr. William E. Alexander, Room 115, Simcoe Hall, 978-2757.

Weekend daddies:

The ignored victims of separation

by Pamela Cornell

When a man has been used to spending time each day talking and playing with his children, the end of his marriage can mean the beginning of acute loneliness and longing — painful feelings he probably won't be able to discuss, even with friends and family.

"Dropping the children off after a weekend visit is a particularly emotional time," says sociology professor Robert MacKay, who recently completed a pilot study of fathers separated not only from their wives but from their children, too. "While our society is generally supportive of separated mothers, the fathers' needs tend to be ignored."

Examining the plight of fathers living apart from their children was not as straightforward as Prof. MacKay had anticipated. His biggest problem was finding men willing to be interviewed.

Notices posted around the University, the Ontario Institute for Studies in Education (OISE), the Women's Book Store, and in the daily newspapers failed to produce any volunteers. Finally, he went to the Society for Single Fathers, where 12 members of that support/advocacy group agreed to talk about their experiences and emotions.

Participants in the study varied in age from 28 to 40, with one or two children anywhere from one year old to 20, though most were in the six-to-12 range.

"I was looking for people with younger children, so there'd be more emotional and physical involvement."

MacKay also preferred interviewing men who'd been separated no longer than a year because they could offer the most detailed recollections of the painful transitional period. Unfortunately only four of his interviewees fell into that category.

Asked where they would rather be interviewed, most chose either their own office or MacKay's. None opted for home or a neutral place, such as a bar or restaurant.

MacKay had drawn up a list of topic areas to which he referred during interviews, but he avoided asking set questions. Instead, he responded spontaneously to what he was being told and tried to let the discussion evolve naturally.

"In every case, the tone was established from the beginning — either clinical and factual or very emotional, anything from anger to crying. And once that tone had been set, nothing I said or did could divert it."

Separation experiences varied widely, with predictably varied reactions. One father, whose children had been taken to another country, was devastated. Another was frantic because his ex-wife constantly manipulated the visitation arrangements. Still others managed to come through the adjustment period relatively quickly and pleasantly, particularly if they had a stable relationship with another partner.

Common to almost all was a phase of lavishing gifts on their children and of devising formal outings to movies, museums, amusement parks, and restaurants. It took time before most could just stay home with their children.

When they weren't with their children, all the fathers had friends to see and places to go but they seldom found opportunities to deal with any but the most socially-acceptable feelings, such as anger.

"Men tend to be isolated from one another, even when they're together. They need to know other men feel the way they do. Movies and TV are too stereotyped to provide a sense of reality. If *Kramer vs Kramer* were true to life, it wouldn't be the box-office hit it is; people wouldn't feel comfortable with it."

MacKay sees an urgent need for more research, more articles by men for men, and more support groups; but he particularly wants to see new laws recognizing the father as an equal parent.

"Courts almost invariably award custody to mothers. Even getting joint custody is difficult unless there's absolute agreement between the two parties."

His pilot research will be written up as a modified case study, liberally sprinkled with quotes.

"I can't express their feelings better than they do."

But MacKay admits his study will just offer "a partial picture at best". He's anxious to find more volunteers so he can pursue his investigation.

Recently-separated fathers willing to be interviewed can contact him at the registrar's office, University College (978-3171).

English classes sponsored by ISC

The International Student Centre (ISC) is looking for volunteers to act as teachers/leaders in its English program for students from overseas, starting October 1980.

Each volunteer will be expected to meet a class of fewer than 10 students once per week for a two-hour session and to prepare the necessary material in advance.

Experience in a related teaching or leadership situation is an asset but is not required. There will be orientation workshops in September.

For further information, contact the coordinator, Eileen Barbeau, at ISC, telephone 978-2038.

Faculty are asked to encourage students who might benefit to enrol in these classes.

The fee for one semester of the program is \$10 per person, or \$15 per couple. Although spouses of foreign students are free to join any session, there will be a special day-time class at 35 St. Charles St. W., to which small children may be brought. A nursery program is provided.

For foreign students ineligible to attend other writing laboratories on campus, three-quarter hour individual tutorial sessions in written English will be given for a nominal registration fee at ISC.

Registration for all classes is being held at ISC starting Sept. 2 between 9.30 a.m. and 2.30 p.m. For further information, telephone 978-2038.

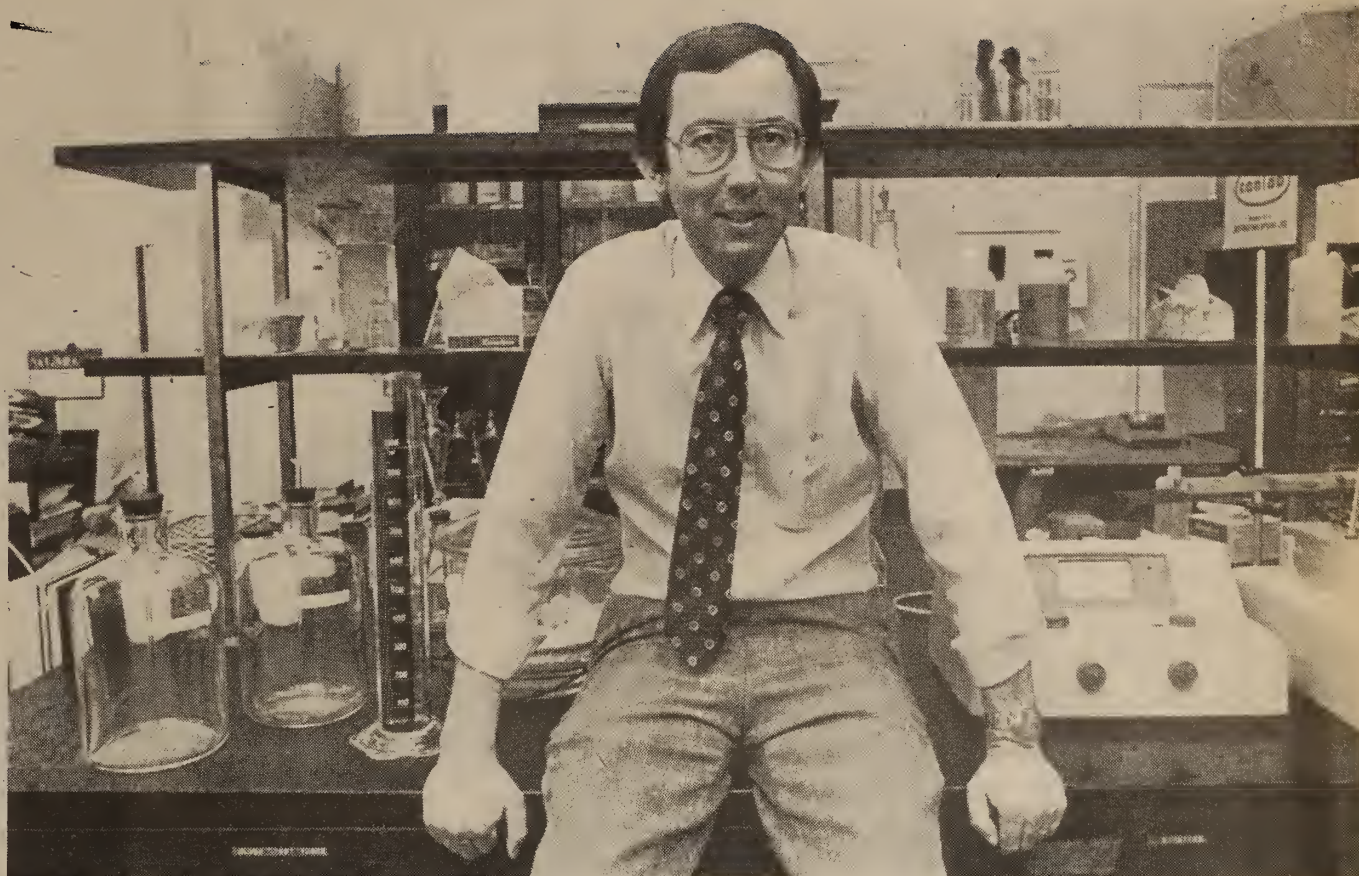
International mathematics workshop at Erindale

Fifty mathematicians from around the world are attending a six-week-long workshop (ending Aug. 15) at Erindale College. This is the first opportunity that these renowned mathematicians have had to collaborate with each other for such an extended period of time. Grants for the workshop were provided by the Natural Sciences & Engineering Research Council of Canada, the U of T mathematics department, and Erindale College.

Forum

Nutrition Teaching in Our Medical Curriculum

by Dr. G. Harvey Anderson



Why don't our doctors know more about nutrition? I'm sure that this question is asked of many members of the medical faculty, but it is probably asked most often of those of us who are associated with the Department of Nutrition & Food Science. Usually those asking that question have recently read something in a book (usually unreliable), or in a recent issue of the *Toronto Star*, the *Globe & Mail*, or the *National Enquirer*, or they have been to their family doctor who has given less than convincing responses to their questions on nutrition. The next step in such conversations is for the questioner to ask what we are doing in our medical school to teach our future doctors about nutrition. Fortunately we can answer that question with some feeling of pride and accomplishment.

Beginning in 1977 nutrition became a separate and required course in the second year medical curriculum at the University of Toronto. In many ways the interest of the public played a role in creating this development. However there are a number of more specific factors which can be identified. In 1975 the Faculty of Medicine at UofT became one of the first in North America to contain a Department of Nutrition & Food Science. Shortly after the department was formed in the faculty, Dr. G.H. Beaton, chairman of that department, and Dr. C.H. Hollenberg, chairman of the Department of Medicine, combined their resources to establish the Program in Human Nutrition. This program, with an office at 256 McCaul St., has had a major impact in stimulating collaborative research and training programs in nutrition and now encompasses almost every department within the faculty. Also, research conducted into many aspects of nutrition, on this campus or in association with this university, has given us international recognition. For example, Dr. K.N. Jeejeebhoy at Toronto General Hospital brought research into total parenteral nutrition (feeding patients all nutrients by vein) to Canada and has provided world-wide leadership in this area. Similarly, the Hospital for Sick Children and Department of Paediatrics have provided leadership in research and clinical application of nutrition to infant feeding, and have recently established a Division of Clinical Nutrition, headed by Dr. Paul Pencharz. We have examples of research which have been internationally recognized not only in the scientific and medical community, but by the public as well. For example,

Dr. T.W. Anderson's research into the relationship of vitamin C consumption to the common cold is well-known. The public will also know Dr. Harding le Riche through his many books, one of which is titled *The Complete Family Book of Nutrition and Meal Planning*. In addition to these examples there are many other research projects examining the relationship of diet to prevention and the treatment of obesity, diabetes, cardiovascular disease, cancer, and osteoporosis. However, the point is that we are fortunate at this university to have a resource base of expertise to support the teaching and application of nutrition knowledge to medical practice. Therefore, as a result of the factors I have mentioned it was relatively easy for us to place nutrition as a topic in our curriculum.

Prior to 1977 we were teaching some nutrition to our medical students but it became apparent that a new approach was needed. Therefore, in 1976 Dr. Brian Holmes, dean of the faculty, set up a committee to examine the possibility of increasing the effectiveness of nutrition teaching in the medical curriculum. This committee, which included representation of many faculty departments, recommended that nutrition become a strong component of the medical curriculum. This was a step which led to one of the first comprehensive and identifiable courses on the subject of nutrition to be introduced into any medical curriculum as a required course for all students. Harvard will be following our leadership (of three years ago) this fall.

The overall objective of our course is to provide the students with functional knowledge and, probably more importantly, an interest in nutrition as required in the support of medical practice. It is hoped they will then continue to seek out and apply the right knowledge appropriate for their speciality. At the present time, on the basis of student evaluations and experience over the past three years, my impression is that the course has been well received by the students. There is increased demand from the students as they go through our curriculum for supporting elective courses, even though in addition to the second year course they receive supporting lectures in the third and fourth years.

I am confident that our future graduates from our current curriculum will be responsive to questions that their patients raise. They will be effective in providing their patients with a realistic perspective

of nutrition in disease prevention and hence help us combat the misleading information that is available to the public. This will not be an easy task because the public feels more knowledgeable on the subject of nutrition than on any other aspect of medicine. In addition to using nutrition information more effectively in providing medical care to office patients, our graduates should be more effective in their management of the hospitalized patients. They should be able to remove the cause for such headlines as "30-50 percent of hospitalized patients are malnourished".

In addition to teaching the medical students, the Faculty of Medicine is trying to reach practising physicians and surgeons. Through the Program in Human Nutrition and through the continuing medical education department we have offered several courses and one-day events on the subject of nutrition. These courses have been well-attended and we expect to continue this activity.

In my opinion these developments have demonstrated again that the Faculty of Medicine continually provides leadership in responding to the changing knowledge required for the effective practice of medicine. Although it may be premature to judge the public response to, and the possible benefits they will gain from, the increased nutrition knowledge of our doctors, I can only be optimistic. Our students have accepted the challenge to win back the confidence of the public. In a recent address at the Kellogg Nutrition Symposium one of the fourth year medical students, Lynn McIntyre, concluded her address by saying, "medicine has been late in becoming an authority on nutrition. The uninformed, the

sensational, and the fraudulent have unseated us and our challenge is to win the confidence of our patients in nutrition matters by knowing more than the food faddists and maybe even a little more than Grandma."

Dr. Anderson is a professor in the Department of Nutrition & Food Science.

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Professor to edit new architecture magazine

A new magazine called *Trace*, edited by Department of Architecture professor George Baird, will take its place on specialty news-stands sometime this fall.

Prof. Baird says the quarterly publication, which will have an initial circulation of about 5,000, will provide a national forum to examine Canadian architecture from a historical perspective.

Although *Trace* will be of particular interest to people working within the profession and in Canadian universities, he says the magazine will be designed to appeal to anyone interested in architecture and the preservation of the country's heritage.

Trace's 12-member editorial board includes representatives from across the country. Baird says the architectural community in Canada has long felt the need for such a publication.

He estimates that the magazine will require \$300,000 to \$400,000 for start-up costs and should be self-supporting in four years. Fundraising from within the architectural community, Canadian corporations and granting agencies is underway, he says.

Woodsworth information officer wins college award

Cynthia Turkis, an information officer at Woodsworth College graduating this year with a Certificate in Criminology, has been awarded the Ontario Woodsworth Memorial Foundation Prize. The prize is awarded to a graduating student in the college who has contributed to Woodsworth in a non-academic way and has a good academic record.

Turkis, who has worked at Woodsworth College since 1975, has been an active volunteer in the field of criminology while pursuing her certificate. She has worked with the John Howard Society, the Don Jail, and Opportunity House, a residence for delinquents. She has received two awards for her volunteer work: Volunteer of the Year, John Howard Society and a Community Service Award from the Ministry of Correctional Services.

Turkis intends to continue her studies at U of T, pursuing a BA with a minor in criminology.

Carrels and book lockers in the Robarts Library

Applications for carrels and book lockers for faculty members and graduate students, Divisions I and II, for the fall/winter session will be received until September 12.

Application forms and information sheets are available at the circulation desk, fourth floor, Robarts Library. As in the past, assignments for graduate students will be made on the basis of priorities which have been decided in consultation with the School of Graduate Studies.

Assignments of carrels and book lockers will begin on Oct. 6. For further information, please telephone the carrel office (978-2305).

Job Openings

Below is a partial list of job openings at the University. Interested applicants should read the Promotional Opportunity postings on their staff bulletin boards, or telephone the Personnel Office for further information. The number in brackets following the name of the department in the list indicates the personnel officer responsible. Please call: (1) Sylvia Holland, 978-6470; (2) Margaret Graham, 978-5468; (3) Manfred Wewers, 978-4834; (4) Ann Sarsfield, 978-2112; (5) Barbara Marshall, 978-4518; (6) Clive Pyne, 978-4419.

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Dean's Office, Medicine (4)

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Relations (6), Dean's Office, Medicine (4)

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tration (1), Computer Science (1),
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College (5), Dean's Office, Medicine (4)

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tration (1), German (1), English (1)

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Botany (1)

Animal Surgical Technician II

(\$12,280 — 14,440 — 16,600)
Surgery (4)

Laboratory Technician II

(\$13,660 — 16,070 — 18,480)
Biomedical Engineering, 50 percent (4),
Banting & Best (2), Clinical Biochem-
istry (4), Pathology (4), Biochemistry (2),
Chemistry (1), Surgery (4)

Laboratory Technician III

(\$15,090 — 17,750 — 20,410)
Chemistry (1), Physiology (2), Nutrition
& Food Science (2)

Health Records Supervisor

(\$11,150 — 13,130 — 15,110)
Family & Community Health (4)

Storekeeper III

(\$13,660 — 16,070 — 18,480)
Medicine (4)

Programmer III

(\$20,630 — 24,280 — 27,930)
Business Information Systems (3),
Computing Services (3)

Programmer IV

(\$25,430 — 29,930 — 34,430)
Library Automation Systems (3)

Probationary Constable

(\$14,144, Union)
Physical Plant (6)

Library Technician III

(\$10,110 — 11,920 — 13,730)
Media Centre (1), Science & Medicine (5),
Robarts (5)

Director, Teaching/Learning Unit

(\$16,740 — 19,700 — 22,660)
Scarborough College, part-time,
seasonal (4)

Student Counsellor II

(\$16,740 — 19,700 — 22,660)
Psychology (1)

Administrative Assistant II

(\$15,940 — 18,760 — 21,580)
Statistics (1)

Engineering Technologist III

(\$17,700 — 20,820 — 23,940)
Astronomy (1)

Assistant to the Director

(\$19,620 — 23,080 — 26,540)
Private Funding (2)

Administrative Assistant III

(\$19,620 — 23,080 — 26,540)
Office of the Vice-President & Provost (1)

Professional Engineering Officer II

(\$22,900 — 26,940 — 30,980)
Computing Services (3)

Classified

A classified ad costs \$5 for up to 35 words and \$.25 for each additional word. Your name counts as one word as does your phone number, but the components of your address will each be counted as a word.

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Quebec professor seeks small apartment near Erindale College or St. George campus for 1980-81 academic year. Call Professor Brian Merrilees, 978-3164.

Furnished country home in Sunny Brae, Nova Scotia in lovely village atmosphere, 100 miles north of Halifax. Rent negotiable. Occupancy September 1, 1980. Superb location for professor on sabbatical leave, writer or somebody who wants to get away from it all. Contact Prof. Jane Evans, 122 Lakeshore Rd., # 46, St. Catharines, Ontario L2N 6N6 Tel. (416) 935-9065.

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- Starry nights
- Northern sunsets
- The call of the loon

Where, for moderate rates, you can:

- Reserve a cottage or room
- Partake of home-cooked meals
- Rent boats and motors

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